SentryView™ Camera Configuration Tool

User Manual

Revision: 2/17/2014

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I. What is sentryView™?

SentryView™ is the industry's first plug-and-play tool for IP video. You can configure up to 250 cameras at a time. Advanced feature sets include exporting straight to VMS, batch firmware, batch hardware, batch video settings, batch motion detection setup, and more. With this tool you can fully configure a 250 camera deployment in less than 5 minutes. This search software tool will increase productivity in the field, making its use a necessity for anyone installing Sentry360 cameras.

II. What's new?

- Additional Pro Series image settings
- Additional Mini Series image settings
- Tool tips added
- Added Calibration tab for FS-IP8180 to manually calibrate offsets
- Added button to allow user to reset camera to factory default settings
- Resolved "Export to NVR" bug
- Resolved firmware upgrade error when user is offline
- Resolved error setting the correct Frame Rate for Pro Series cameras
- Improved installation script

III. System Specifications

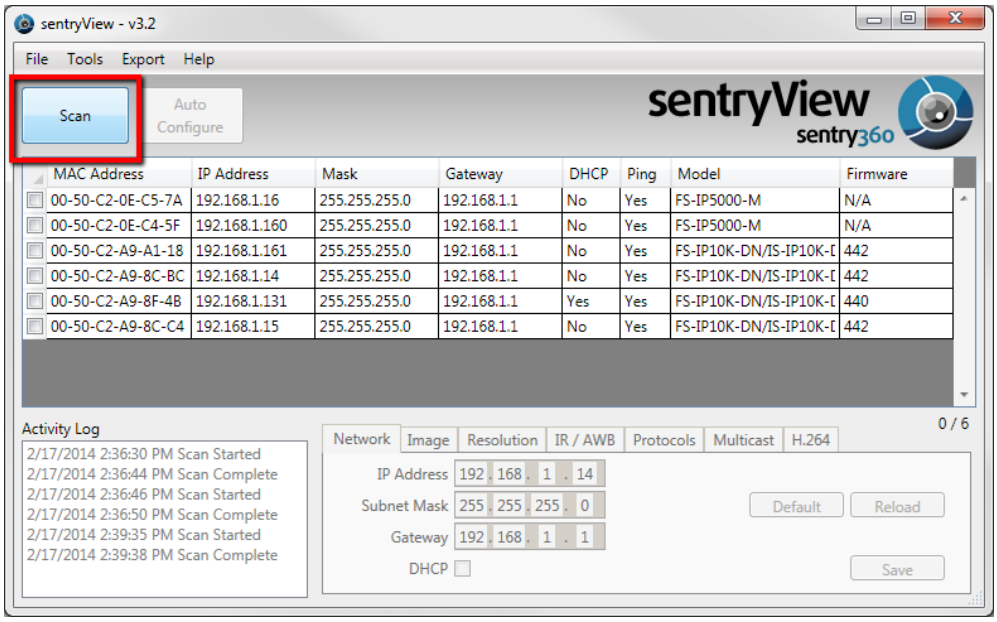
Current Version: 3.2.1.5

Supported Operating Systems: Windows XP, Windows Server 2003, Windows Vista, Windows 7, Windows Server 2008, Windows 8.
Our software can run natively on both x86 and x64 systems. There are currently no Mac OS X or Linux versions available.

IV. Basic Setup

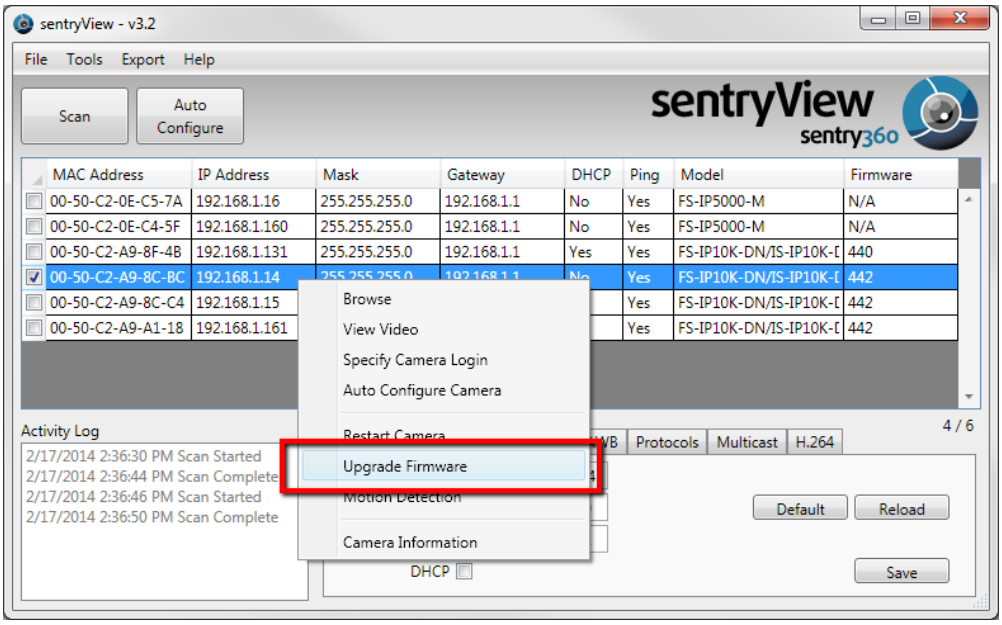
A. *Scanning the network for cameras*

Make sure all Sentry360 cameras are connected correctly to your network. Click **Scan** at the top left of the program (Alternatively, click on **Tools > Scan**). This will search your network for all connected devices. Once the scan is complete, sentryView™ will list the camera's Model, MAC Address, IP Address, and other network information in the main window.

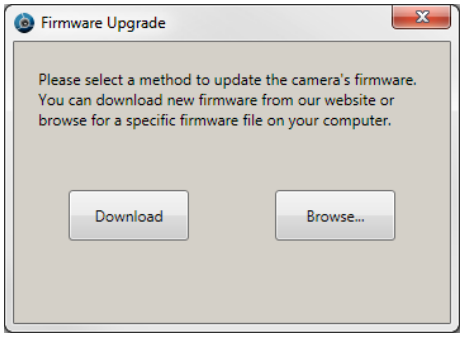

sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address | IP Address | Mask | Gateway | DHCP | Ping | Model | Firmware
00-50-C2-0E-C5-7A | 192.168.1.16 | 255.255.255.0 | 192.168.1.1 | No | Yes | FS-IP5000-M | N/A
00-50-C2-0E-C4-5F | 192.168.1.160 | 255.255.255.0 | 192.168.1.1 | No | Yes | FS-IP5000-M | N/A
00-50-C2-A9-A1-18 | 192.168.1.161 | 255.255.255.0 | 192.168.1.1 | No | Yes | FS-IP10K-DN/IS-IP10K-[| 442
00-50-C2-A9-8C-BC | 192.168.1.14 | 255.255.255.0 | 192.168.1.1 | No | Yes | FS-IP10K-DN/IS-IP10K-[| 442
00-50-C2-A9-8F-4B | 192.168.1.131 | 255.255.255.0 | 192.168.1.1 | Yes | Yes | FS-IP10K-DN/IS-IP10K-[| 440
00-50-C2-A9-8C-C4 | 192.168.1.15 | 255.255.255.0 | 192.168.1.1 | No | Yes | FS-IP10K-DN/IS-IP10K-[| 442
0 / 6
Activity Log
2/17/2014 2:36:30 PM Scan Started
2/17/2014 2:36:44 PM Scan Complete
2/17/2014 2:36:46 PM Scan Started
2/17/2014 2:36:50 PM Scan Complete
2/17/2014 2:39:35 PM Scan Started
2/17/2014 2:39:38 PM Scan Complete
Network Image Resolution IR / AWB Protocols Multicast H.264
IP Address 192 . 168 . 1 . 14
Subnet Mask 255 . 255 . 255 . 0
Gateway 192 . 168 . 1 . 1
DHCP
Default Reload Save

B. *Upgrade a Camera's Firmware*

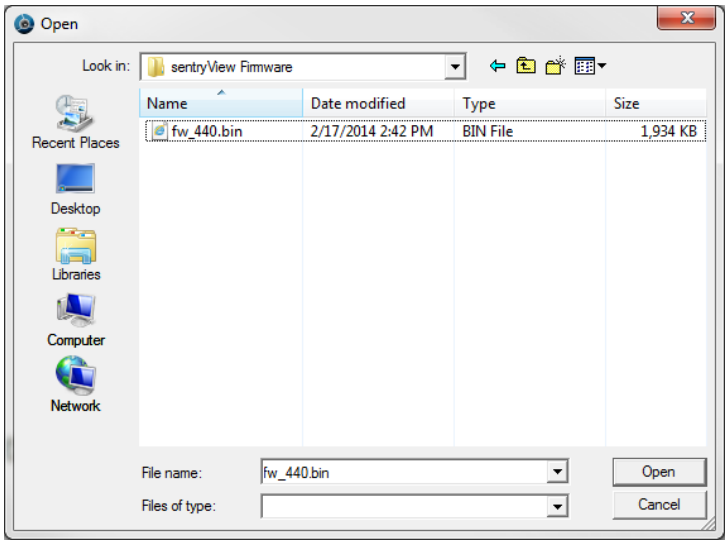
Right click on the camera that you would like to upgrade the firmware of and select **Upgrade Firmware** from the list (Alternatively you can select the camera from the list and click on **Tools > Upgrade Firmware**).



The Firmware Upgrade window will open up. Click **Browse** to choose a firmware file already downloaded on your computer. Click **Download** to automatically download and upgrade a firmware file from the internet.

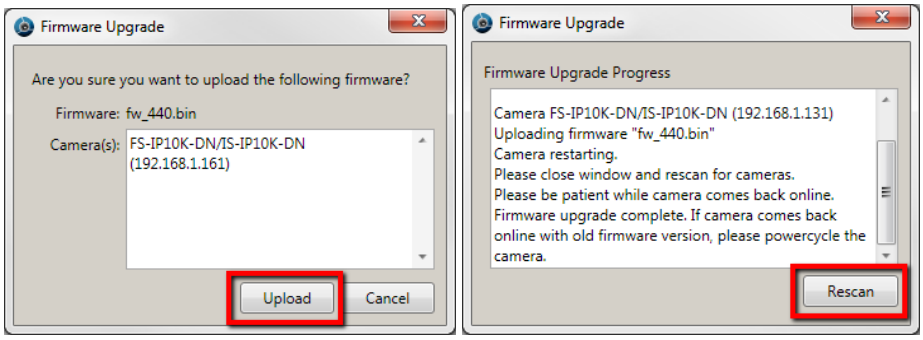

Firmware Upgrade
Please select a method to update the camera's firmware.
You can download new firmware from our website or
browse for a specific firmware file on your computer.
Download
Browse...

If you choose **Browse**, navigate to the location that the firmware is saved to on your computer and click **Open**. (Note: you can find download links to our firmware by visiting our Partner Portal at http://sentry360.com/Partner/firmware.php)



(Note: For Mini Series cameras you want to select the "uImage_userland" file in the firmware folder)

SentryView™ will ask you to confirm that you want to upload the new firmware. Click **Upload**.

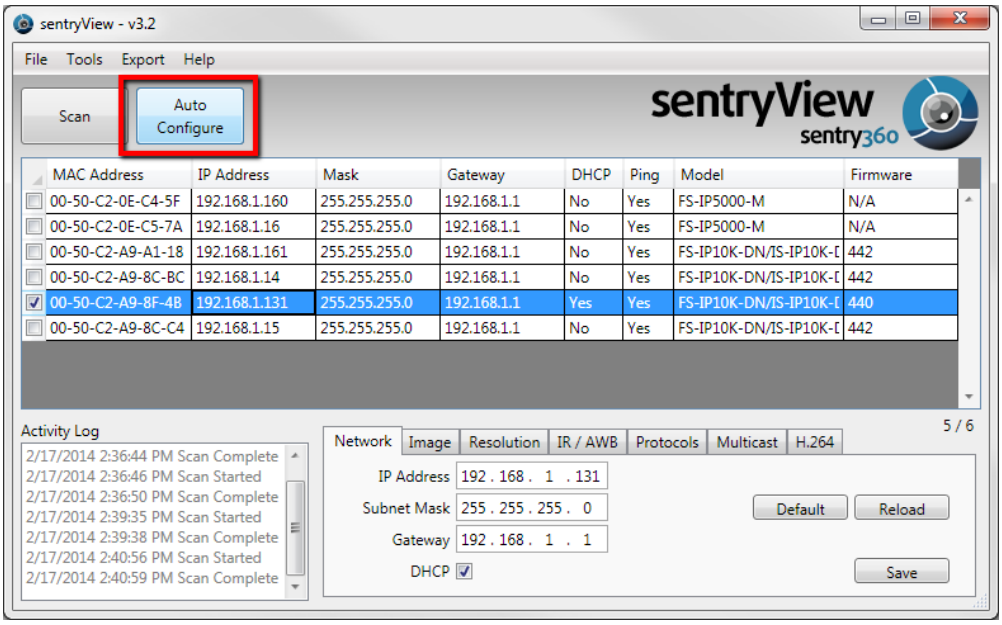

Firmware Upgrade
Are you sure you want to upload the following firmware?
Firmware: fw_440.bin
Camera(s): FS-IP10K-DN/IS-IP10K-DN (192.168.1.161)
Upload
Cancel
Firmware Upgrade
Firmware Upgrade Progress
Camera FS-IP10K-DN/IS-IP10K-DN (192.168.1.131)
Uploading firmware "fw_440.bin"
Camera restarting.
Please close window and rescan for cameras.
Please be patient while camera comes back online.
Firmware upgrade complete. If camera comes back online with old firmware version, please powercycle the camera.
Rescan

The firmware will then be uploaded to the camera and the camera will reboot.

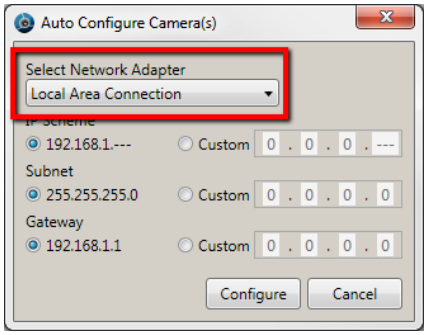
To confirm the firmware has been upgraded, check the number under the **Firmware** column for the camera. (Note: If the camera still shows the same firmware version after scanning, it may require a power cycle. Unplug the camera for 30 seconds, and then reconnect it)

C. *Automatically configuring the camera's IP address*

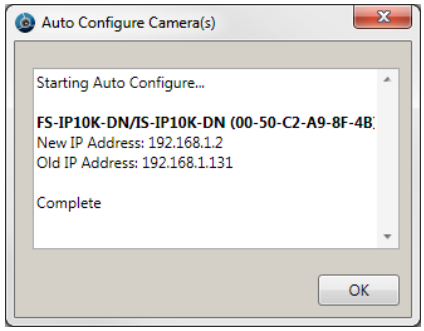
Select the camera you would like to configure. Click the **Auto Configure** button at the top (Alternatively right click the camera on the list and choose **Auto Configure Camera**).


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address | IP Address | Mask | Gateway | DHCP | Ping | Model | Firmware
00-50-C2-0E-C4-5F | 192.168.1.160 | 255.255.255.0 | 192.168.1.1 | No | Yes | FS-IP5000-M | N/A
00-50-C2-0E-C5-7A | 192.168.1.16 | 255.255.255.0 | 192.168.1.1 | No | Yes | FS-IP5000-M | N/A
00-50-C2-A9-A1-18 | 192.168.1.161 | 255.255.255.0 | 192.168.1.1 | No | Yes | FS-IP10K-DN/IS-IP10K-[| 442
00-50-C2-A9-8C-BC | 192.168.1.14 | 255.255.255.0 | 192.168.1.1 | No | Yes | FS-IP10K-DN/IS-IP10K-[| 442
00-50-C2-A9-8F-4B | 192.168.1.131 | 255.255.255.0 | 192.168.1.1 | Yes | Yes | FS-IP10K-DN/IS-IP10K-[| 440
00-50-C2-A9-8C-C4 | 192.168.1.15 | 255.255.255.0 | 192.168.1.1 | No | Yes | FS-IP10K-DN/IS-IP10K-[| 442
5 / 6
Activity Log
2/17/2014 2:36:44 PM Scan Complete
2/17/2014 2:36:46 PM Scan Started
2/17/2014 2:36:50 PM Scan Complete
2/17/2014 2:39:35 PM Scan Started
2/17/2014 2:39:38 PM Scan Complete
2/17/2014 2:40:56 PM Scan Started
2/17/2014 2:40:59 PM Scan Complete
Network Image Resolution IR / AWB Protocols Multicast H.264
IP Address 192 . 168 . 1 . 131
Subnet Mask 255 . 255 . 255 . 0
Gateway 192 . 168 . 1 . 1
DHCP
Default Reload Save

If there are multiple network cards installed, choose the correct adapter that you want your camera to be configured for. Confirm that these network settings are correct. If you need to manually specify any settings, choose the **Custom** option for IP Scheme, Subnet, or Gateway, and enter the information, then click **Configure**.

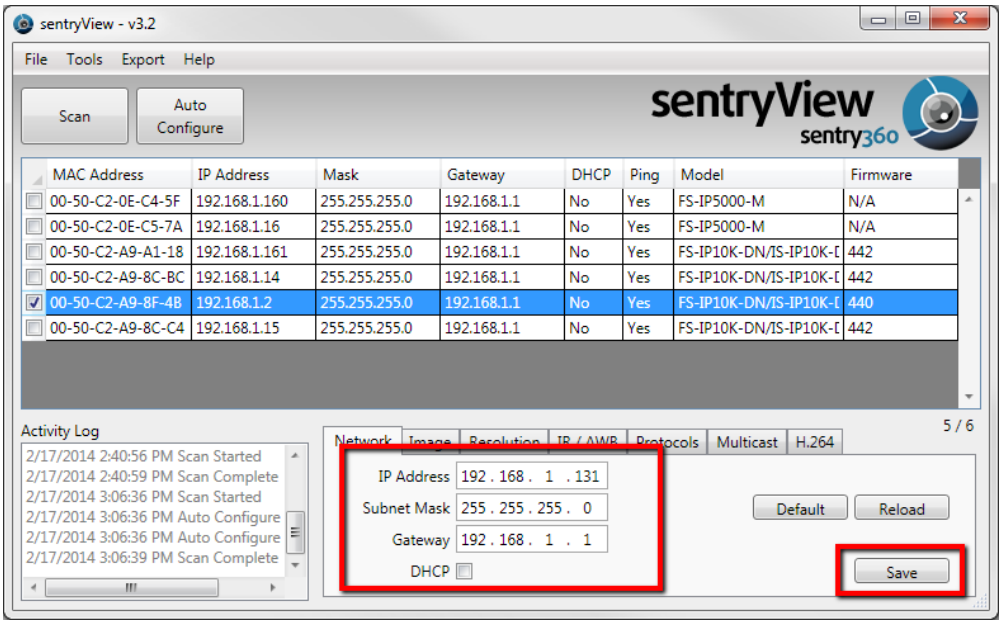

Auto Configure Camera(s)
Select Network Adapter
Local Area Connection
192.168.1.--- Custom 0 . 0 . 0 . ---
Subnet
255.255.255.0 Custom 0 . 0 . 0 . 0
Gateway
192.168.1.1 Custom 0 . 0 . 0 . 0
Configure Cancel

Unless specified otherwise, sentryView™ will automatically assign the camera the next available IP address on that scheme. When complete, a dialog box will confirm your camera's new settings. SentryView™ will then rescan the network.



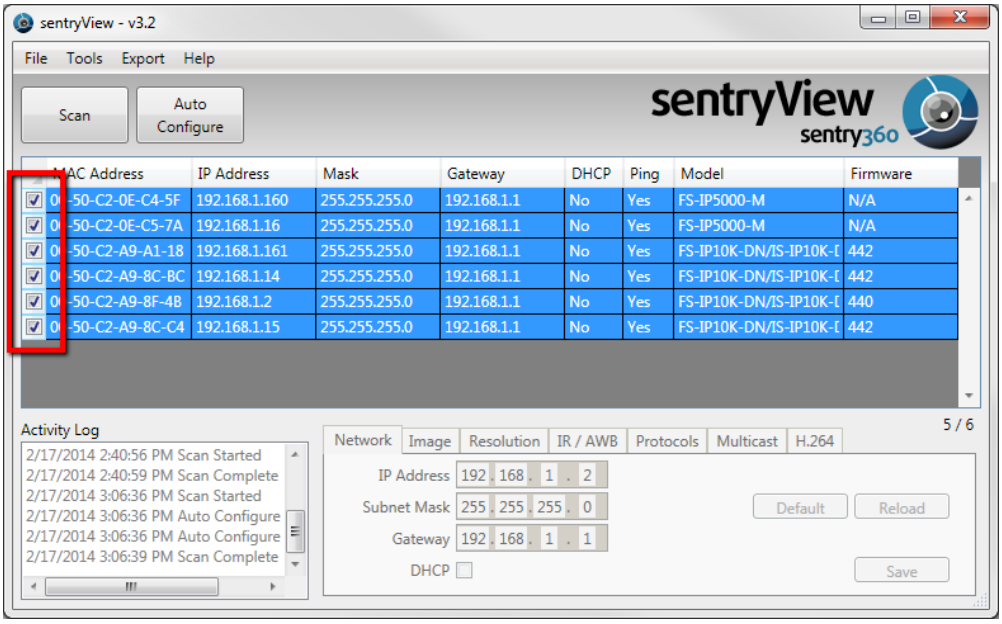
D. *Manually configuring a camera's IP address*

Select the camera you would like to configure. In the Network tab at the bottom, enter the new IP Address, Subnet Mask, and Gateway. If using a DHCP server, check the DHCP box. When the information is entered, click **Save**. SentryView™ will configure the camera's new settings and rescan the network.


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8F-4B 192.168.1.2 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[440
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
5 / 6
Activity Log
2/17/2014 2:40:56 PM Scan Started
2/17/2014 2:40:59 PM Scan Complete
2/17/2014 3:06:36 PM Scan Started
2/17/2014 3:06:36 PM Auto Configure
2/17/2014 3:06:36 PM Auto Configure
2/17/2014 3:06:39 PM Scan Complete
Network Image Resolution IR / AWB Protocols Multicast H.264
IP Address 192 . 168 . 1 . 131
Subnet Mask 255 . 255 . 255 . 0
Gateway 192 . 168 . 1 . 1
DHCP
Default Reload
Save

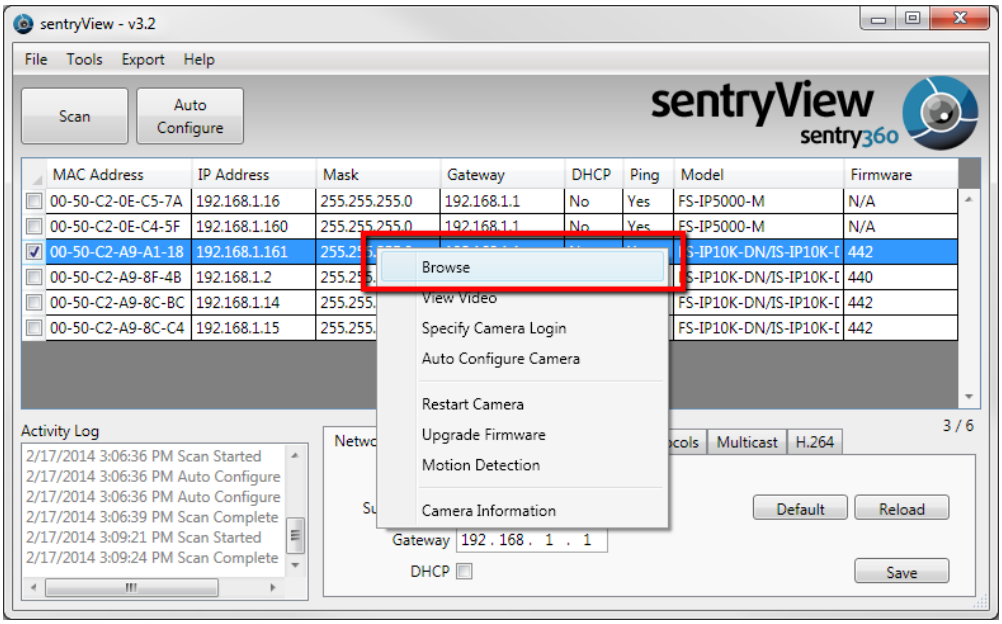
E. *Batch configuring multiple cameras*

To automatically configure multiple cameras, select each camera you want to configure by selecting each with a check mark in the left column. When all cameras are selected, you can configure all of them by following **Step C (*Automatically configuring the camera's IP address)*** as listed above.


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8F-4B 192.168.1.2 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[440
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
5 / 6
Activity Log
2/17/2014 2:40:56 PM Scan Started
2/17/2014 2:40:59 PM Scan Complete
2/17/2014 3:06:36 PM Scan Started
2/17/2014 3:06:36 PM Auto Configure
2/17/2014 3:06:36 PM Auto Configure
2/17/2014 3:06:39 PM Scan Complete
Network Image Resolution IR / AWB Protocols Multicast H.264
IP Address 192 . 168 . 1 . 2
Subnet Mask 255 . 255 . 255 . 0
Gateway 192 . 168 . 1 . 1
DHCP
Default Reload
Save

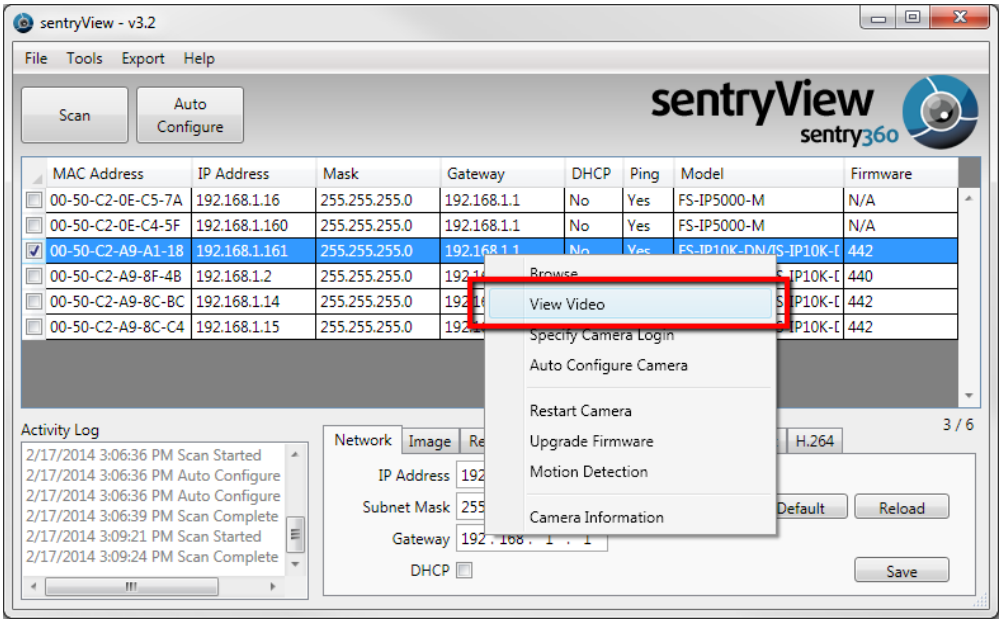
F. *View a camera's video through the web browser*

Right click on a camera and choose **Browse** (Alternatively select a camera and click on **Tools > Browse**). This will open the camera in Internet Explorer. (Note: If opening a Mini Series camera, you will be prompted for a username and password. Unless configured otherwise, the default name will be “Admin” and the password “1234”) Consult your camera’s manual for further information on using the web interface.



G. *View a camera’s video through sentryView™*

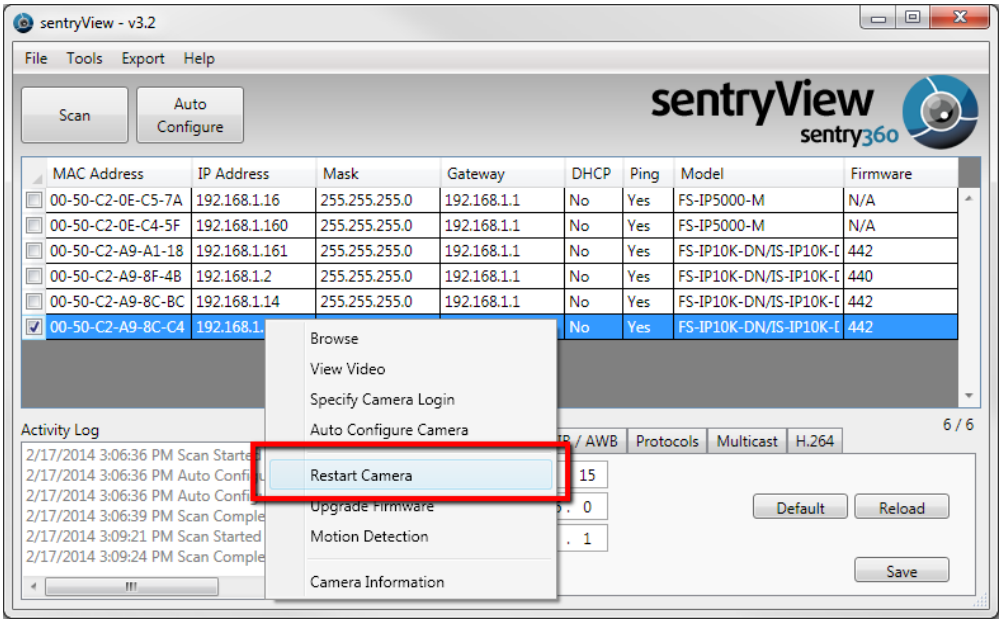
Right click on the camera and select **View Video** (Alternatively select a camera and click **Tools > View Video**).



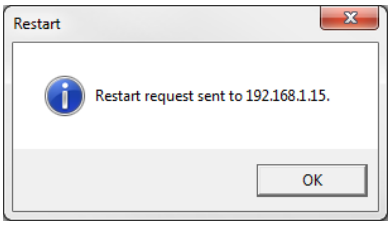
SentryView™ will open up a new window that shows the live video of the camera. (Note: The camera's MJPEG stream must be enabled for Video Preview). The window supports basic digital PTZ functionality using the mouse buttons and scroll wheel.

H. *Restarting a camera with sentryView™*

Right click on a camera and select **Restart Camera** (Alternatively select a camera and click **Tools > Restart Camera**).



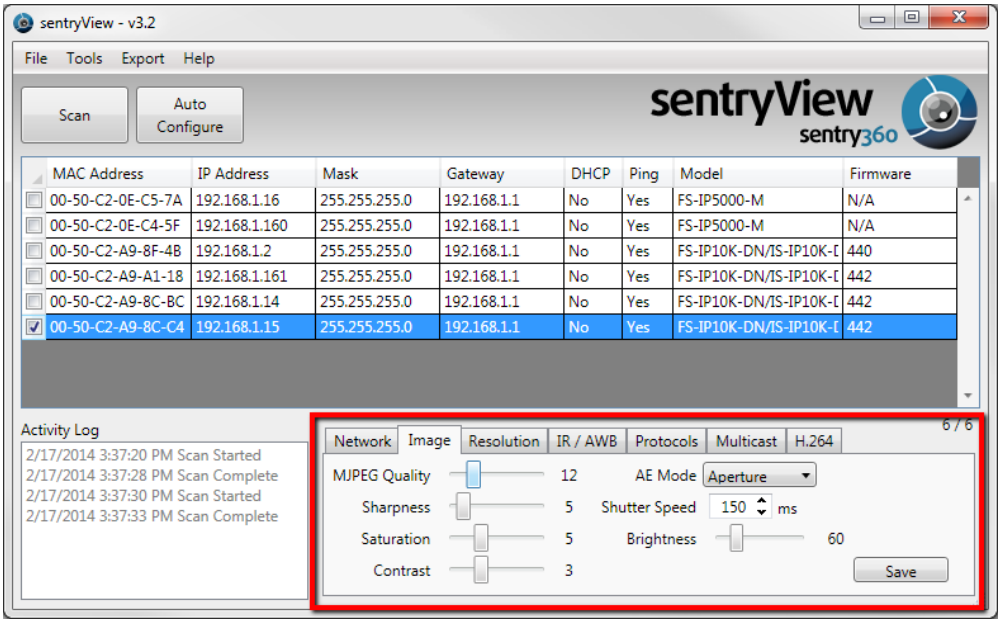
SentryView™ will send a restart signal to the camera and display a window confirming that the restart request has been sent. The camera may take up to a few minutes to reconnect.



V. Advanced Features (Pro Series Cameras)

A. *Change Camera's Image Settings*

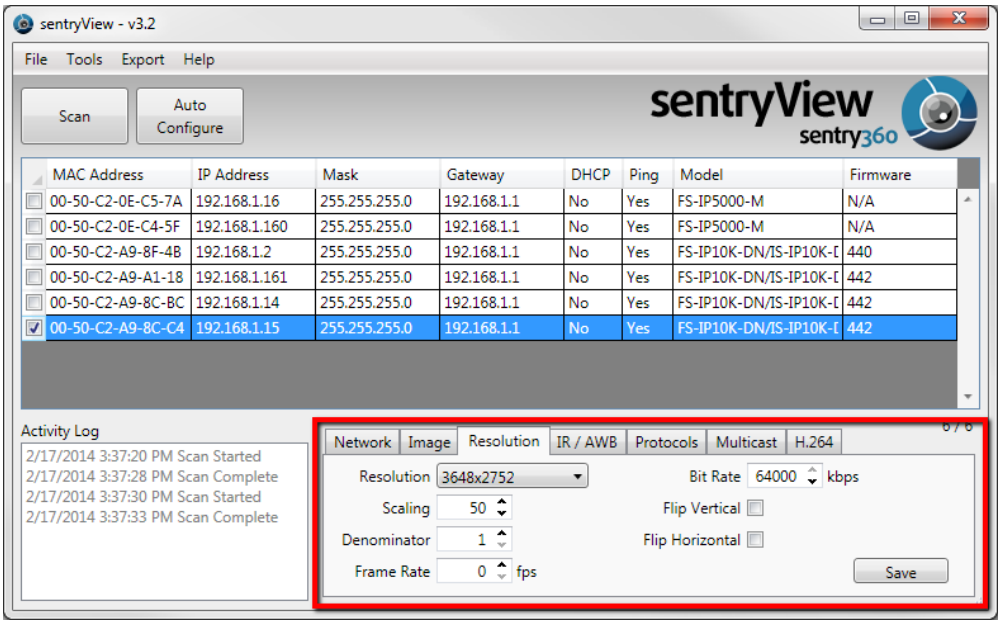
Select the Pro Series camera you wish to change the image settings of and then click on the **Image** tab. In this tab you can adjust the camera's **MJPEG Quality, Sharpness, Saturation, Contrast, Auto-Exposure Priority Mode, Shutter Speed, and Brightness**.


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-A9-8F-4B 192.168.1.2 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[440
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
Activity Log
2/17/2014 3:37:20 PM Scan Started
2/17/2014 3:37:28 PM Scan Complete
2/17/2014 3:37:30 PM Scan Started
2/17/2014 3:37:33 PM Scan Complete
6 / 6
Network Image Resolution IR / AWB Protocols Multicast H.264
MJPEG Quality 12
Sharpness 5
Saturation 5
Contrast 3
AE Mode Aperture
Shutter Speed 150 ms
Brightness 60
Save

When you are finished changing the camera's settings, click **Save.**

B. *Change a Camera's Resolution Settings*

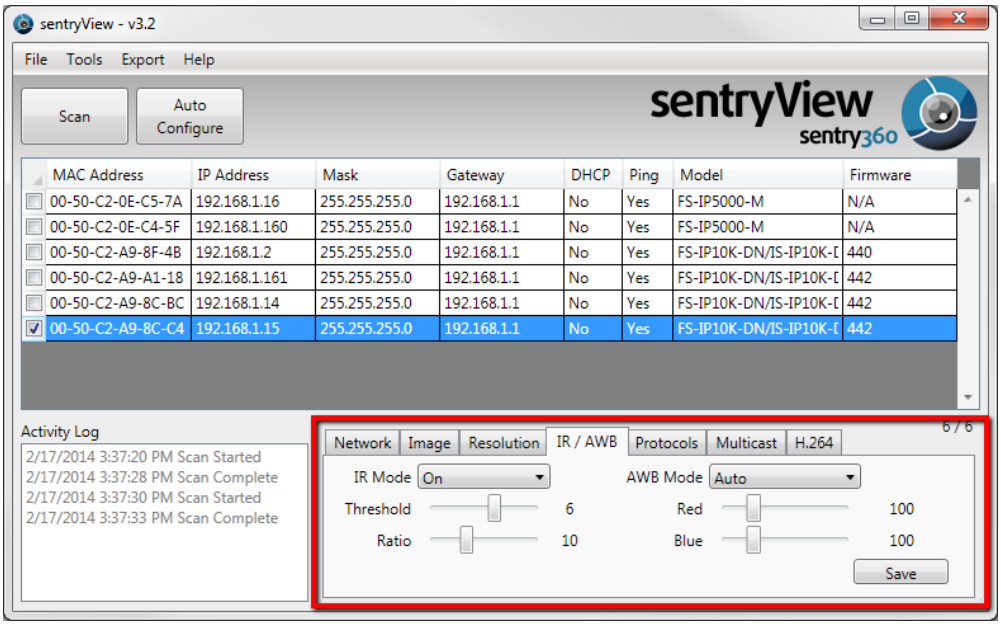
Select the camera you wish to change the Resolution settings of and then click on the **Resolution** tab. In this tab you can adjust the camera's **Resolution, Scaling, Denominator, Frame Rate, Bit Rate, Vertical Image Flip, and Horizontal Image Flip.**


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-A9-8F-4B 192.168.1.2 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[440
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
Activity Log
2/17/2014 3:37:20 PM Scan Started
2/17/2014 3:37:28 PM Scan Complete
2/17/2014 3:37:30 PM Scan Started
2/17/2014 3:37:33 PM Scan Complete
Network Image Resolution IR / AWB Protocols Multicast H.264
6 / 6
Resolution 3648x2752
Bit Rate 64000 kbps
Scaling 50
Flip Vertical
Denominator 1
Flip Horizontal
Frame Rate 0 fps
Save

When you are finished changing the camera's settings, click **Save**.

C. *Change Camera's IR/ Auto White Balance Settings*

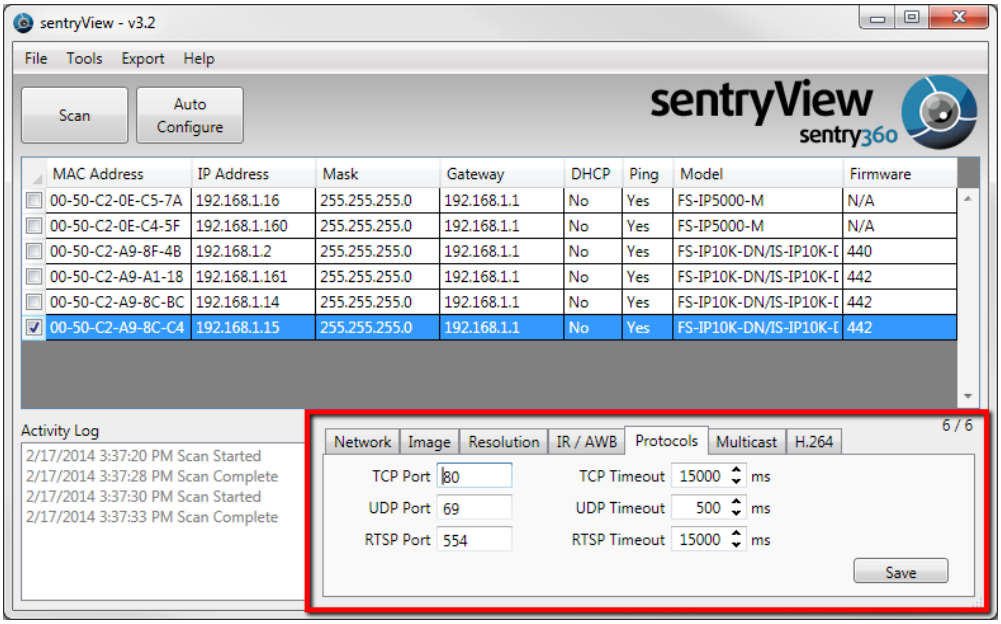
Select the camera you wish to change the IR/White Balance of and then click on the **IR/AWB** tab. In this tab you can adjust the camera's **IR mode, Threshold, Ratio, AWB Mode, Red to Green Ratio, and Blue to Green Ratio.**


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-A9-8F-4B 192.168.1.2 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[440
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
Activity Log
2/17/2014 3:37:20 PM Scan Started
2/17/2014 3:37:28 PM Scan Complete
2/17/2014 3:37:30 PM Scan Started
2/17/2014 3:37:33 PM Scan Complete
Network Image Resolution IR / AWB Protocols Multicast H.264
6 / 6
IR Mode On
AWB Mode Auto
Threshold 6
Red 100
Ratio 10
Blue 100
Save

When you are finished changing the camera's settings, click **Save**.

Change Camera's Protocol Settings

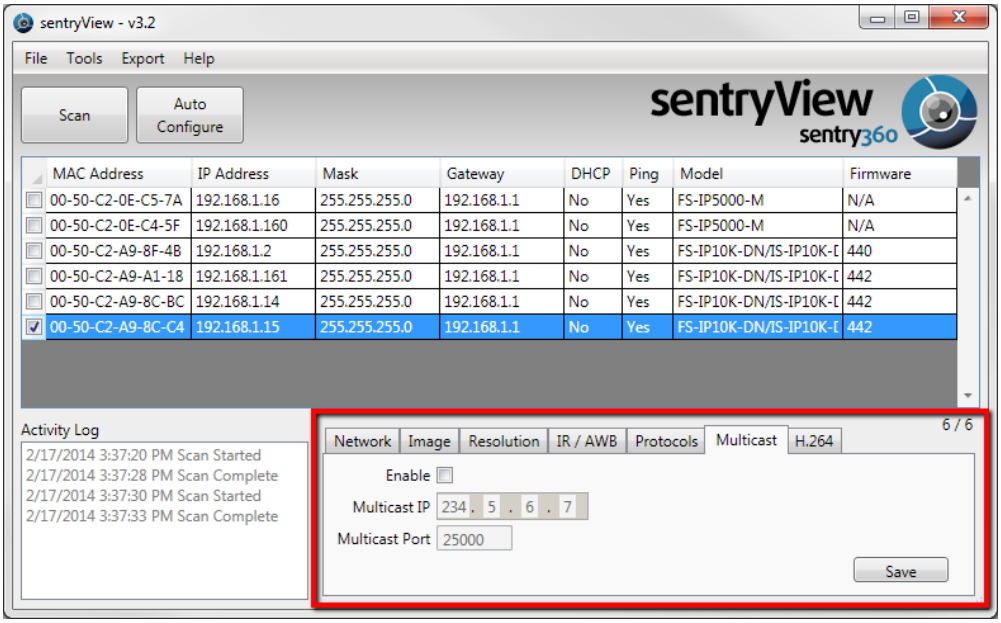
Select the camera you wish to change the Protocol settings of and then click on the Protocols tab. In this tab you can adjust the camera's **TCP Port, UDP Port, RTSP Port, TCP Timeout, UDP Timeout, and RTSP Timeout.**


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-A9-8F-4B 192.168.1.2 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[440
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
Activity Log
2/17/2014 3:37:20 PM Scan Started
2/17/2014 3:37:28 PM Scan Complete
2/17/2014 3:37:30 PM Scan Started
2/17/2014 3:37:33 PM Scan Complete
6 / 6
Network Image Resolution IR / AWB Protocols Multicast H.264
TCP Port 80
UDP Port 69
RTSP Port 554
TCP Timeout 15000 ms
UDP Timeout 500 ms
RTSP Timeout 15000 ms
Save

When you are finished changing the camera's settings, click **Save**.

Change Camera's Multicast Settings

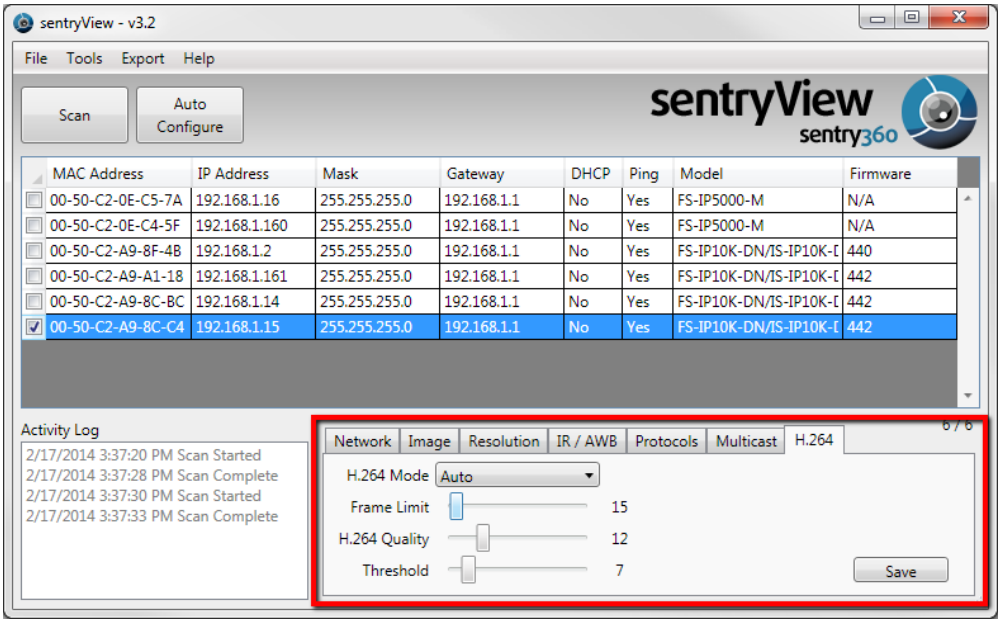
Select the camera you wish to change the Multicast settings of and then click on the **Multicast** tab. In this tab you can adjust the camera's **Multicast Mode**, **Multicast IP Address**, and **Multicast Port.**


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-A9-8F-4B 192.168.1.2 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[440
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
Activity Log
2/17/2014 3:37:20 PM Scan Started
2/17/2014 3:37:28 PM Scan Complete
2/17/2014 3:37:30 PM Scan Started
2/17/2014 3:37:33 PM Scan Complete
6 / 6
Network Image Resolution IR / AWB Protocols Multicast H.264
Enable
Multicast IP 234 . 5 . 6 . 7
Multicast Port 25000
Save

When you are finished changing the camera's settings, click **Save.**

D. *Change Camera's H.264 Settings*

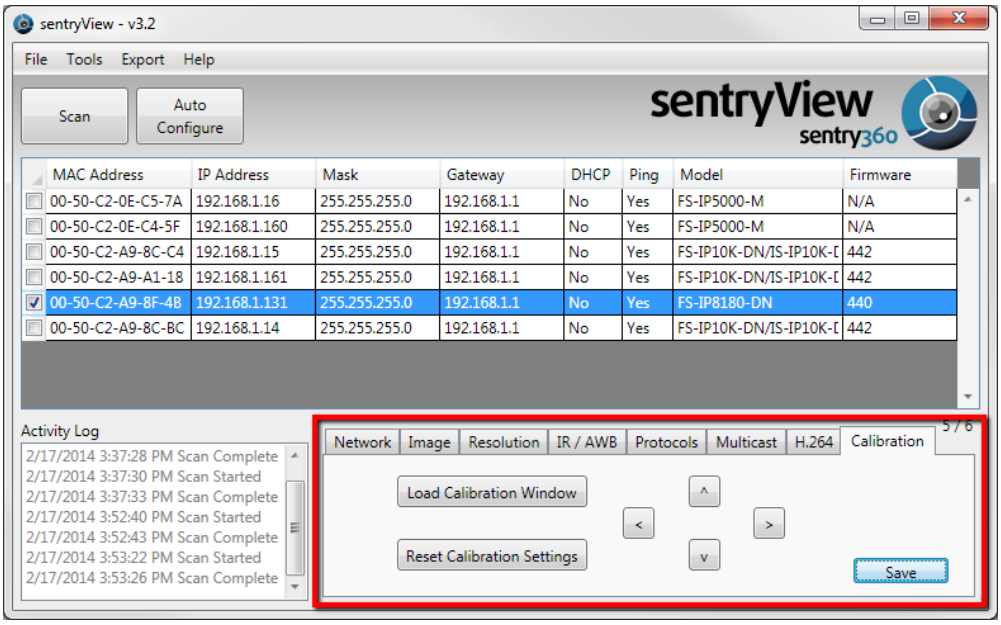
Select the camera you wish to change the H.264 settings of and then click on the **H.264** tab. In this tab you can adjust the camera's **H.264 Mode**, **Frame Limit**, **H.264 Quality**, and **Threshold**.


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-A9-8F-4B 192.168.1.2 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[440
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
Activity Log
2/17/2014 3:37:20 PM Scan Started
2/17/2014 3:37:28 PM Scan Complete
2/17/2014 3:37:30 PM Scan Started
2/17/2014 3:37:33 PM Scan Complete
6 / 6
Network Image Resolution IR / AWB Protocols Multicast H.264
H.264 Mode Auto
Frame Limit 15
H.264 Quality 12
Threshold 7
Save

When you are finished changing the camera's settings, click **Save.**

E. *Change Camera's Calibration Settings (FS-IP8180 Only)*

*S*elect the camera you wish to change the Calibration settings of and then click on the **Calibration** tab. To correctly calibration an FS-IP8180 camera, click **Load Calibration Window** to bring up a video preview of the camera. Click **Reset Calibration Settings** to re-center the view of the camera. Once centered, click the **Up**, **Down**, **Left**, and **Right** arrow buttons to shift the view in that direction.


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8F-4B 192.168.1.131 255.255.255.0 192.168.1.1 No Yes FS-IP8180-DN 440
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
Activity Log
2/17/2014 3:37:28 PM Scan Complete
2/17/2014 3:37:30 PM Scan Started
2/17/2014 3:37:33 PM Scan Complete
2/17/2014 3:52:40 PM Scan Started
2/17/2014 3:52:43 PM Scan Complete
2/17/2014 3:53:22 PM Scan Started
2/17/2014 3:53:26 PM Scan Complete
Network Image Resolution IR / AWB Protocols Multicast H.264 Calibration
5 / 6
Load Calibration Window
Reset Calibration Settings
Save

When the view is properly calibrated, click **Save**.

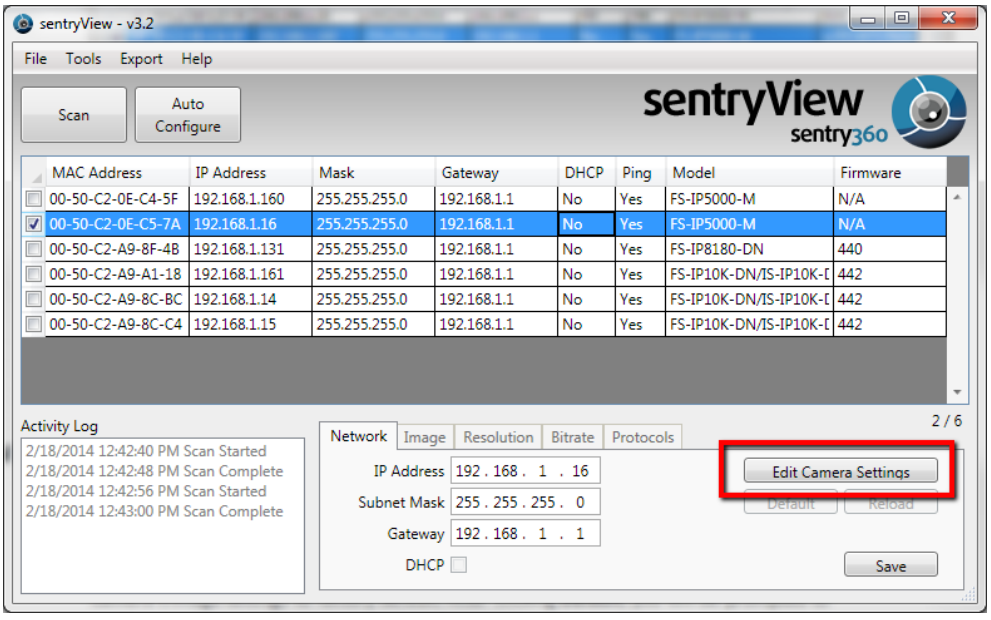
VI. Advanced Features (Mini Series Cameras)

Applies to FS-IP3000-M, FS-IP5000-M, FS-IP4180, IS-DM220, IS-DM220-HB, IS-DM220-IR, IS-DM240, IS-DM240-V, IS-DM260, IS-DM260-R, IS-IP200-DN, IS-IP290, IS-IP200-IRB, and IS-IP220-IRB-30 camera models

Please consult your camera's manual for further detailed information on each of the settings listed below.

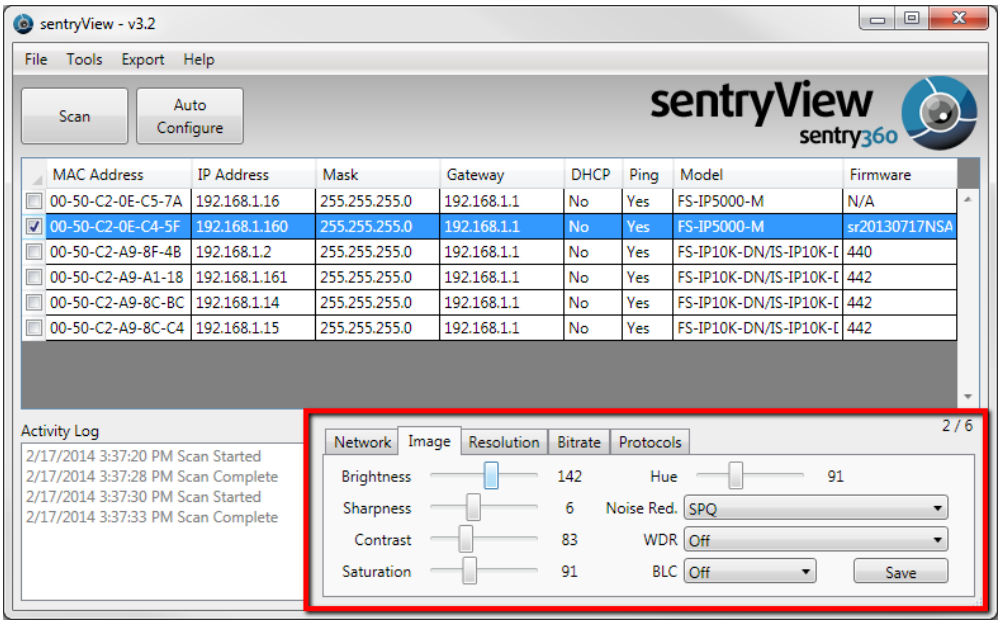
A. *Edit Camera's Settings*

In order to view or edit the settings of a Sentry360 Mini Series Camera, first click **Edit Camera Settings** in the **Network** tab. The camera's settings will be accessible until this button is clicked.


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-A9-8F-4B 192.168.1.131 255.255.255.0 192.168.1.1 No Yes FS-IP8180-DN 440
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
Activity Log
2/18/2014 12:42:40 PM Scan Started
2/18/2014 12:42:48 PM Scan Complete
2/18/2014 12:42:56 PM Scan Started
2/18/2014 12:43:00 PM Scan Complete
Network Image Resolution Bitrate Protocols
2 / 6
IP Address 192 . 168 . 1 . 16
Subnet Mask 255 . 255 . 255 . 0
Gateway 192 . 168 . 1 . 1
DHCP
Edit Camera Settings
Default Reload
Save

B. *Change Camera's Image Settings*

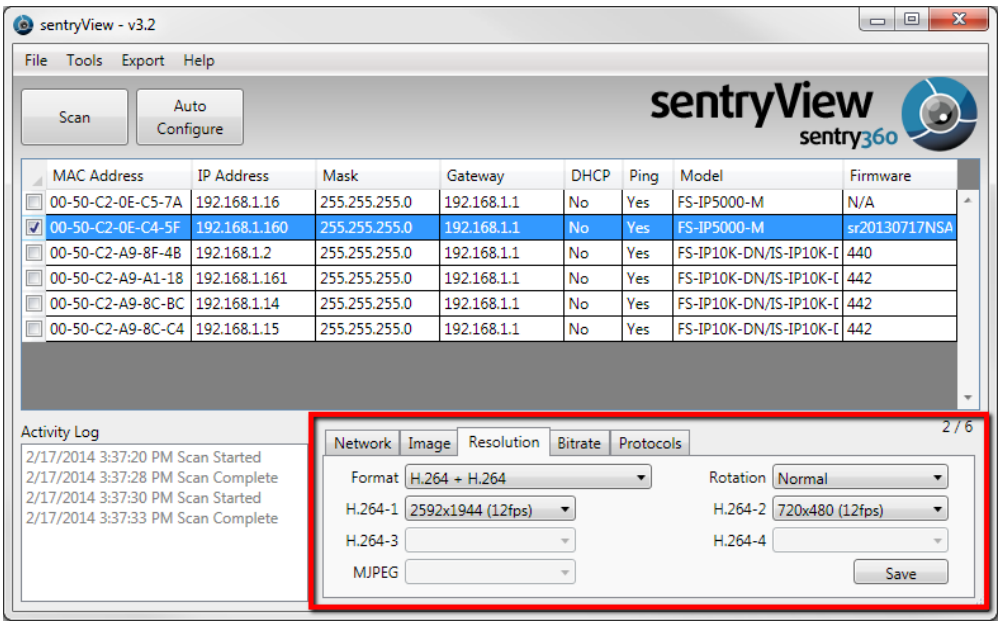
Select the camera you wish to change the Image settings of and then click on the **Image** tab. In this tab you can adjust the camera's **Brightness, Sharpness, Saturation, Contrast, Hue, WDR, and Rotation** Settings.


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M sr20130717NSA
00-50-C2-A9-8F-4B 192.168.1.2 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[440
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
Activity Log
2/17/2014 3:37:20 PM Scan Started
2/17/2014 3:37:28 PM Scan Complete
2/17/2014 3:37:30 PM Scan Started
2/17/2014 3:37:33 PM Scan Complete
Network Image Resolution Bitrate Protocols
2 / 6
Brightness 142
Sharpness 6
Contrast 83
Saturation 91
Hue 91
Noise Red. SPQ
WDR Off
BLC Off
Save

When you are finished changing the camera's settings, click **Save**.

C. *Change the Camera's Resolution Settings*

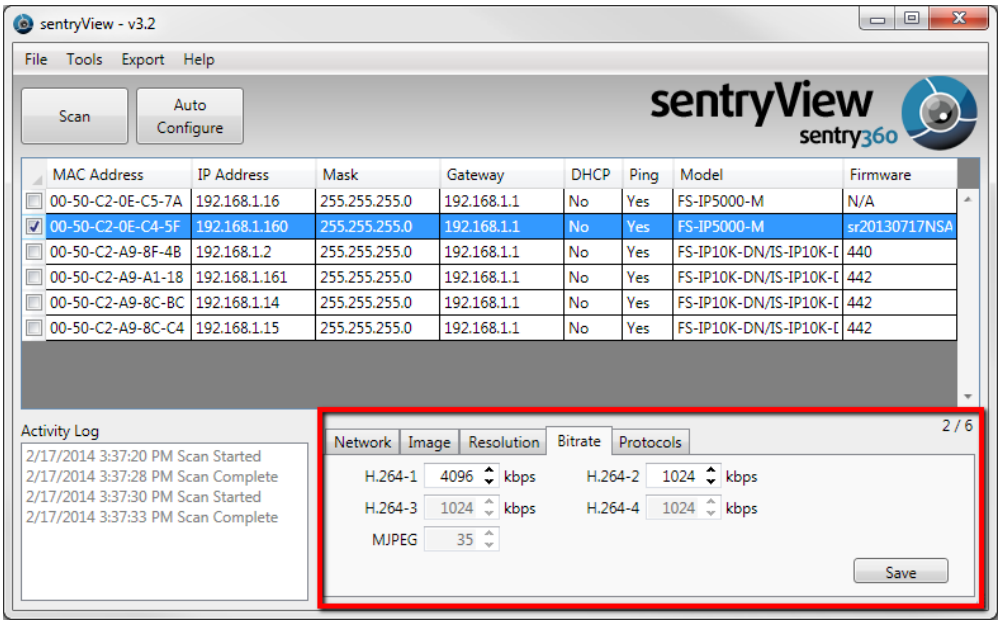
Select the camera you wish to change the resolution settings of and then click on the **Resolution** tab. In this tab you can adjust the camera's compression format and resolution settings.


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M sr20130717NSA
00-50-C2-A9-8F-4B 192.168.1.2 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[440
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
Activity Log
2/17/2014 3:37:20 PM Scan Started
2/17/2014 3:37:28 PM Scan Complete
2/17/2014 3:37:30 PM Scan Started
2/17/2014 3:37:33 PM Scan Complete
Network Image Resolution Bitrate Protocols
2 / 6
Format H.264 + H.264
H.264-1 2592x1944 (12fps)
H.264-3
MJPEG
Rotation Normal
H.264-2 720x480 (12fps)
H.264-4
Save

When you are finished changing the camera's settings, click **Save**.

D. *Change the Camera's Bitrate Settings*

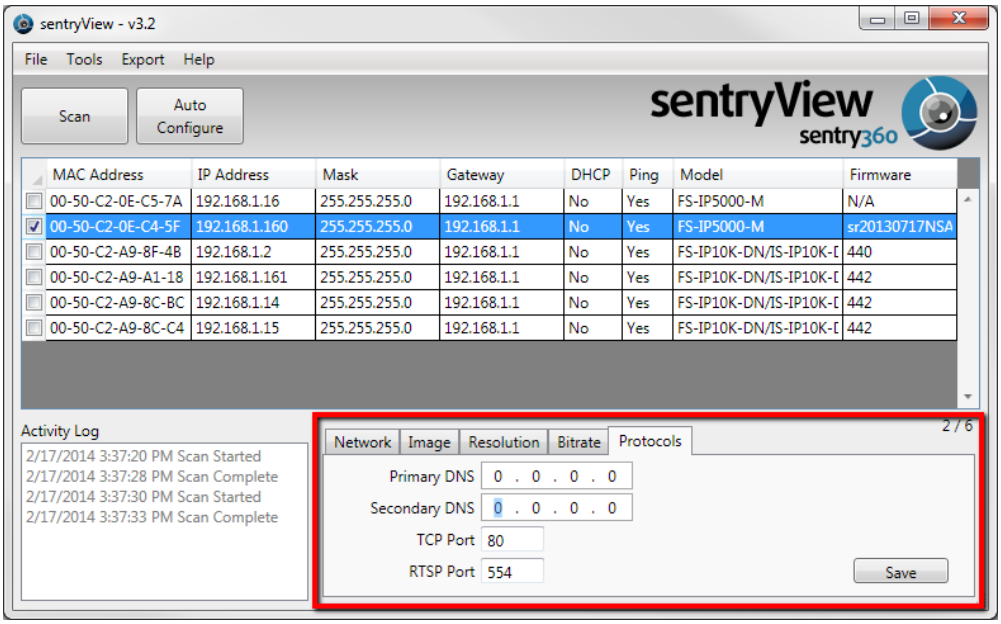
Select the Fullsight/Insight camera you wish to change the Bitrate settings of and click on the **Bitrate** tab. In this tab you can adjust the camera's bitrate settings.


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M sr20130717NSA
00-50-C2-A9-8F-4B 192.168.1.2 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[440
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
Activity Log
2/17/2014 3:37:20 PM Scan Started
2/17/2014 3:37:28 PM Scan Complete
2/17/2014 3:37:30 PM Scan Started
2/17/2014 3:37:33 PM Scan Complete
2 / 6
Network Image Resolution Bitrate Protocols
H.264-1 4096 kbps
H.264-2 1024 kbps
H.264-3 1024 kbps
H.264-4 1024 kbps
MJPEG 35
Save

When you are finished changing the camera's settings, click **Save**.

E. *Change Camera's Miscellaneous Settings*

Select the Fullsight/Insight Camera that you would like to change the miscellaneous settings of and click on the **Misc** tab. In this tab you can adjust the camera's **Primary DNS, Secondary DNS, TCP Port, RTSP Port** settings, and toggle the display of date and time on or off.

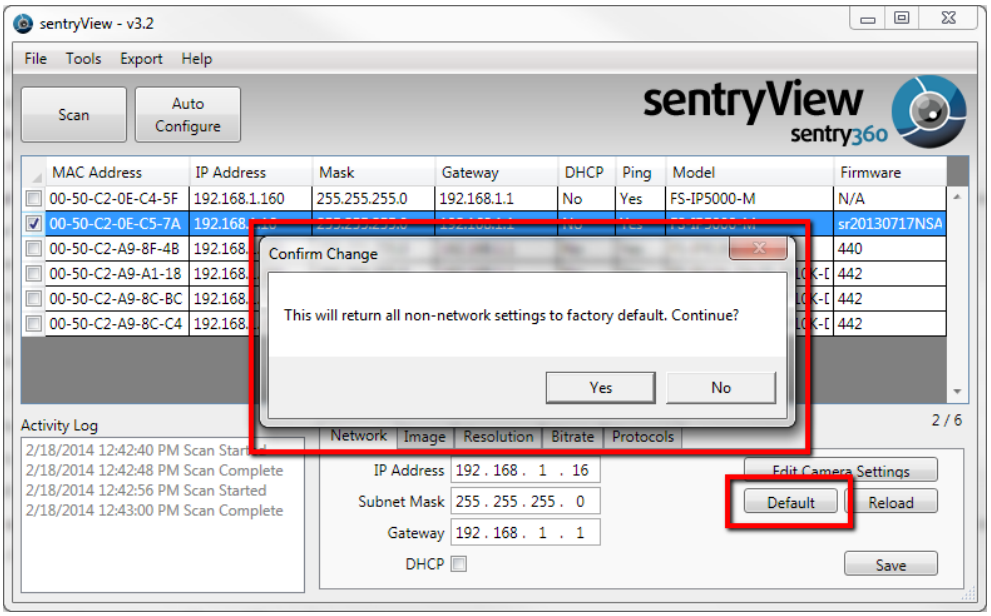

sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M sr20130717NSA
00-50-C2-A9-8F-4B 192.168.1.2 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[440
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
Activity Log
2/17/2014 3:37:20 PM Scan Started
2/17/2014 3:37:28 PM Scan Complete
2/17/2014 3:37:30 PM Scan Started
2/17/2014 3:37:33 PM Scan Complete
2 / 6
Network Image Resolution Bitrate Protocols
Primary DNS 0 . 0 . 0 . 0
Secondary DNS 0 . 0 . 0 . 0
TCP Port 80
RTSP Port 554
Save

When you are finished changing the camera's settings, click **Save**.

IV. Additional Settings

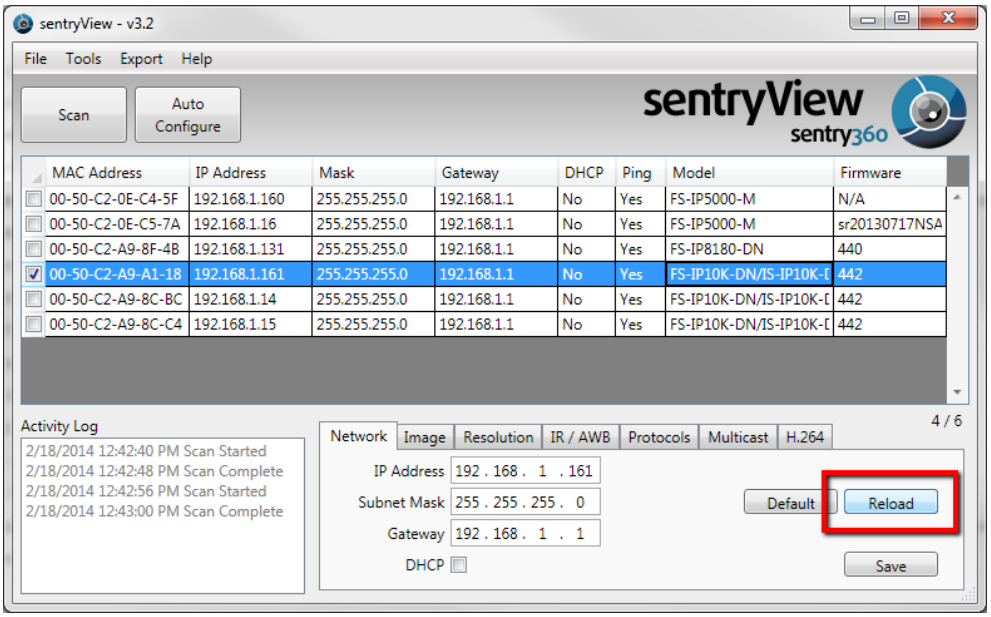
A. *Return Camera to Default Settings*

From the **Network** tab, click the **Default** button for the selected camera. This will return the camera's image settings to factory default. After clicking **Default**, you will be prompted to confirm this choice before continuing. Click **Yes** to continue to return camera to default settings. The camera may take several seconds before it is back online. **Note**: When clicking **Default** for a Sentry360 Pro Series camera, this will also change the Gateway to 0.0.0.0. IP address and Subnet are not affected.



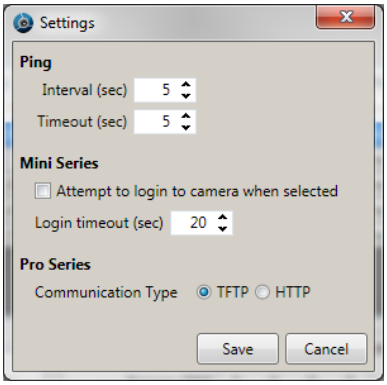
B. *Reload Camera Settings*

From the **Network** tab, click the **Reload** button. This will refresh all of the selected camera's values in sentryView™.


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M sr20130717NSA
00-50-C2-A9-8F-4B 192.168.1.131 255.255.255.0 192.168.1.1 No Yes FS-IP8180-DN 440
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
Activity Log
2/18/2014 12:42:40 PM Scan Started
2/18/2014 12:42:48 PM Scan Complete
2/18/2014 12:42:56 PM Scan Started
2/18/2014 12:43:00 PM Scan Complete
4 / 6
Network Image Resolution IR / AWB Protocols Multicast H.264
IP Address 192 . 168 . 1 . 161
Subnet Mask 255 . 255 . 255 . 0
Gateway 192 . 168 . 1 . 1
DHCP
Default
Reload
Save

C. *Change sentryView's™ Ping Settings*

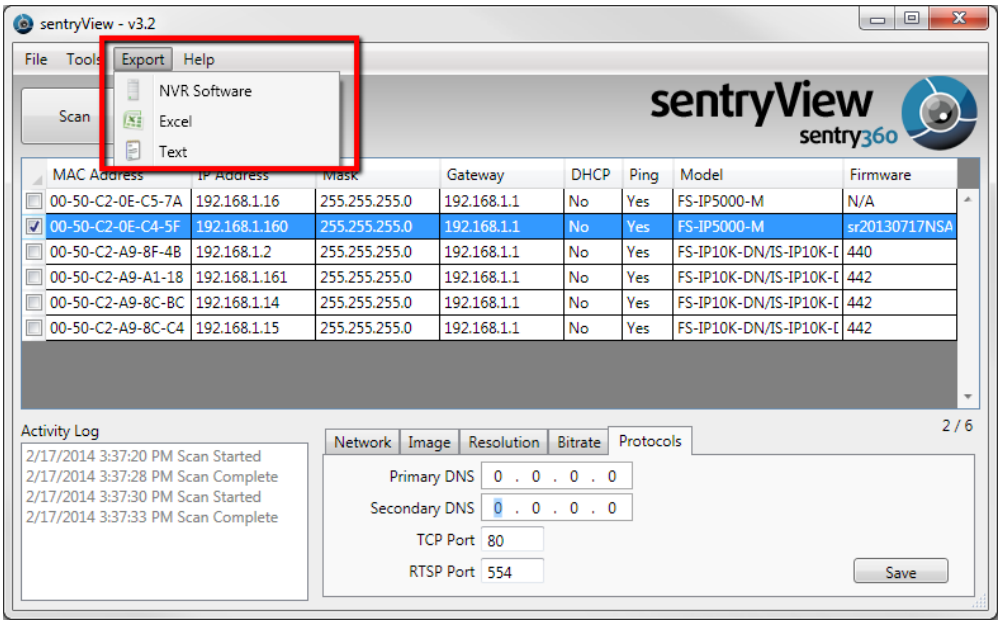
Click **File > Settings** to open sentryView's™ Ping settings. In this new window you can adjust **Ping** settings, Mini Series camera auto login settings, and Pro series communication type.



Adjust the settings in this window, and click **Save** when you are complete.

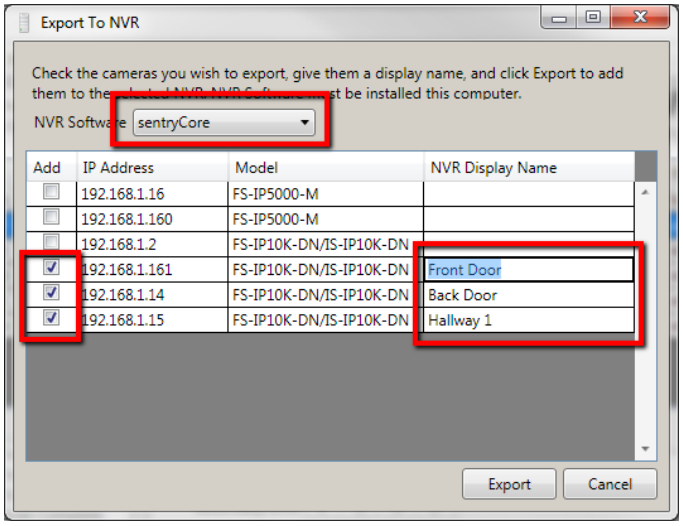
B. *Export Camera Data*

SentryView allows the user to export camera information in multiple formats, including Excel spreadsheets, text files, and even direct-to-VMS.



1. *NVR Software*

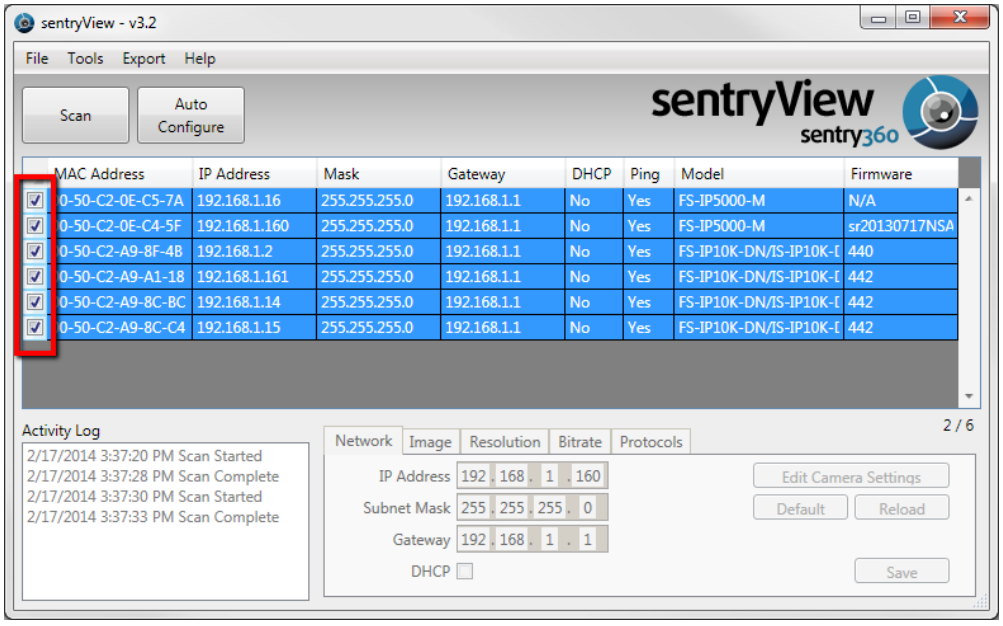
SentryView™ has the ability to export camera configurations to SentryCore™ and Video Insight. In order to use this feature click on **Export > NVR**. Choose either SentryCore™ or Video Insight from the dropdown. Select the camera(s) that you want to export from the list and set a display name for the cameras in the NVR Display Name column. Click **Export.**



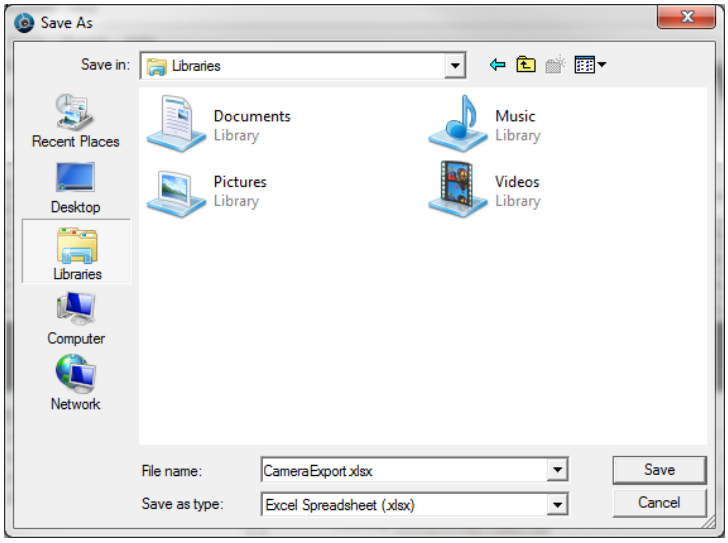
SentryCore™ will add these cameras into the NVR software that you have selected. Launch the NVR software to confirm that the cameras have been added

2. *Excel Spreadsheet*

SentryView™ supports exporting camera data to an Excel spreadsheet. In order to use this feature select the camera(s) that you would like to export data for.


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
0-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
0-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M sr20130717NSA
0-50-C2-A9-8F-4B 192.168.1.2 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-I 440
0-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-I 442
0-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-I 442
0-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-I 442
Activity Log
2/17/2014 3:37:20 PM Scan Started
2/17/2014 3:37:28 PM Scan Complete
2/17/2014 3:37:30 PM Scan Started
2/17/2014 3:37:33 PM Scan Complete
2 / 6
Network Image Resolution Bitrate Protocols
IP Address 192 . 168 . 1 . 160
Subnet Mask 255 . 255 . 255 . 0
Gateway 192 . 168 . 1 . 1
DHCP
Edit Camera Settings
Default Reload
Save

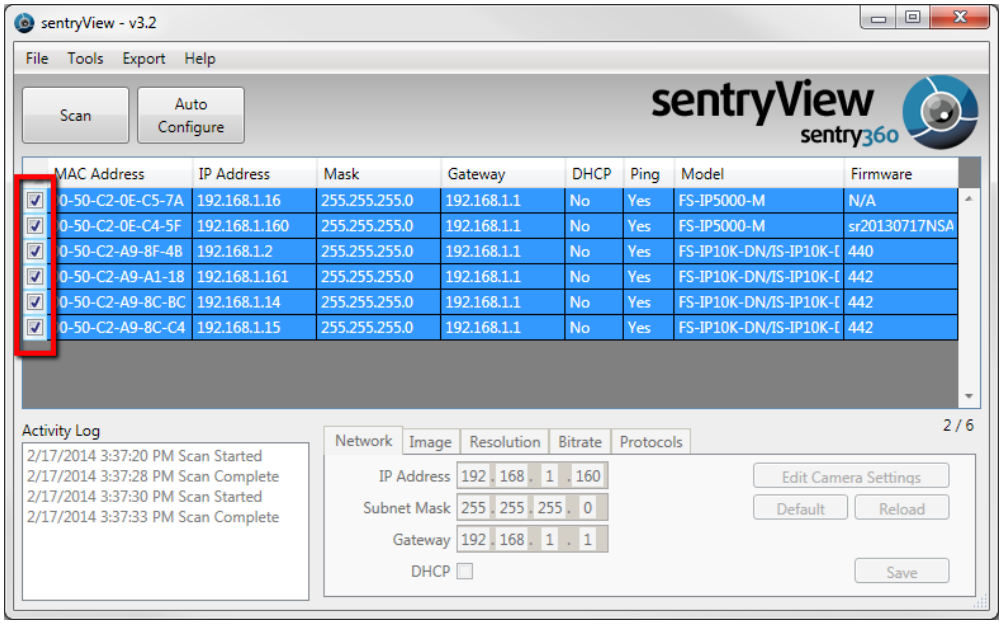
Click on **Export > Excel** and specify the path and name for the spreadsheet then click **Save**.



SentryView™ will create the spreadsheet in the destination you specified.

3. *Text File*

SentryView™ supports exporting camera data to text files. In order to use this feature select the camera(s) that you would like to export data for.


sentryView - v3.2
File Tools Export Help
Scan
Auto Configure
sentryView
sentry360
MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
0-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
0-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M sr20130717NSA
0-50-C2-A9-8F-4B 192.168.1.2 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-I 440
0-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-I 442
0-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-I 442
0-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-I 442
Activity Log
2/17/2014 3:37:20 PM Scan Started
2/17/2014 3:37:28 PM Scan Complete
2/17/2014 3:37:30 PM Scan Started
2/17/2014 3:37:33 PM Scan Complete
2 / 6
Network Image Resolution Bitrate Protocols
IP Address 192 . 168 . 1 . 160
Subnet Mask 255 . 255 . 255 . 0
Gateway 192 . 168 . 1 . 1
DHCP
Edit Camera Settings
Default Reload
Save

Click on **Export > Text** and specify the path and name for the text file then click **Save**.

SentryView™ will create the text file in the destination you specified.

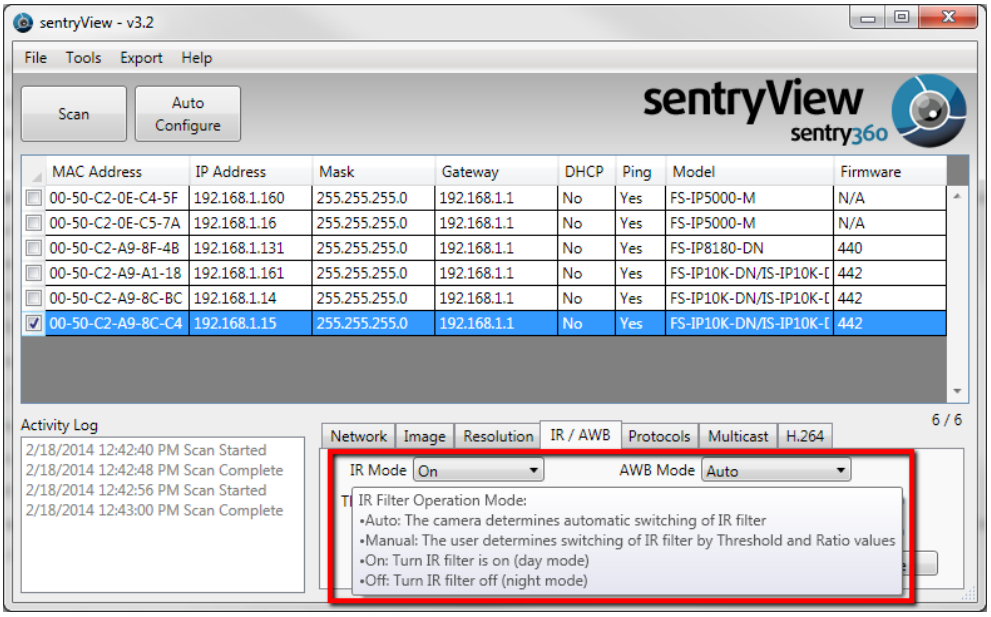
C. *Find sentryView™ version number*

In order to show the version of sentryView™ click on **Help > About sentryView™**. SentryView™ will open a new window displaying the version number

About sentryView
sentryView
sentry360
Version 3.2.1.5
© 2014 Sentry 360 Security. All rights reserved
sentryView and all content relating to Sentry 360 Security are protected by trademark and other pending or existing intellectual property rights in the United States and other countries.
For support or to report issues with this software please contact support@sentry360.com or visit http://www.sentry360.com
OK

D. *Tool Tips*

SentryView™ will display the explanation of a camera setting using tool tips. Using the mouse, hover the pointer over the desired setting's name. A small text box will appear after a few seconds explaining that setting.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File Tools Export Help
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MAC Address IP Address Mask Gateway DHCP Ping Model Firmware
00-50-C2-0E-C4-5F 192.168.1.160 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-0E-C5-7A 192.168.1.16 255.255.255.0 192.168.1.1 No Yes FS-IP5000-M N/A
00-50-C2-A9-8F-4B 192.168.1.131 255.255.255.0 192.168.1.1 No Yes FS-IP8180-DN 440
00-50-C2-A9-A1-18 192.168.1.161 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-BC 192.168.1.14 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
00-50-C2-A9-8C-C4 192.168.1.15 255.255.255.0 192.168.1.1 No Yes FS-IP10K-DN/IS-IP10K-[442
Activity Log
2/18/2014 12:42:40 PM Scan Started
2/18/2014 12:42:48 PM Scan Complete
2/18/2014 12:42:56 PM Scan Started
2/18/2014 12:43:00 PM Scan Complete
6 / 6
Network Image Resolution IR / AWB Protocols Multicast H.264
IR Mode On
AWB Mode Auto
IR Filter Operation Mode:
•Auto: The camera determines automatic switching of IR filter
•Manual: The user determines switching of IR filter by Threshold and Ratio values
•On: Turn IR filter is on (day mode)
•Off: Turn IR filter off (night mode)